

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/FI 2004/000451

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C22B 3/44 // C22B 15:00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4256553 A (FRANK A. BACZEK ET AL), 17 March 1981 (17.03.1981), column 4, line 43 - line 45; column 5, line 24 - line 30; column 5, line 49 - line 52, figure 1 --	1-13
A	US 6319389 B1 (GEARLD F. FOUNTAIN ET AL), 20 November 2001 (20.11.2001), figure 1, abstract --	1-13
A	US 5795465 A (NATHANIEL ARBITER), 18 August 1998 (18.08.1998), figure 2, abstract --	1-13

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"E" document member of the same patent family

Date of the actual completion of the international search  
17 November 2004

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3957602 A (ROBERT K. JOHNSON ET AL), 18 May 1976 (18.05.1976), abstract --	1-13
A	US 2755172 A (PATRICK J. MCGAULEY ET AL), 17 July 1956 (17.07.1956), column 1, line 16 - line 20; column 2, line 24 - line 28 --	1-13
A	US 5108495 A (SEppo O. HEIMALA ET AL), 28 April 1992 (28.04.1992), abstract -- -----	10-12

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

30/10/2004

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US	4256553	A	17/03/1981	CA	1156050	A	01/11/1983
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				US	5902977	A	11/05/1999
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US	2755172	A	17/07/1956	US	2662009	A	08/12/1953
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